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KEYWORDS : CAPSULE; ENCAPSULATE

Item 85

TITLE : OIL-CONTAINING MICROSCOPIC CAPSULES AND METHOD OF MAKING THEM  
PATENT NUMBER : 2800458  
PATENT COUNTRY : US  
INVENTOR(S) : GREEN B K  
ASSIGNEE : NATIONAL CASH REGISTER CO  
KEYWORDS : CAPSULE; ENCAPSULATE

Item 86

TITLE : OIL-CONTAINING MICROSCOPIC CAPSULES AND METHOD OF MAKING THEM  
PATENT NUMBER : RE24899  
PATENT COUNTRY : US  
INVENTOR(S) : GREEN B K  
ASSIGNEE : NATIONAL CASH REGISTER CO  
KEYWORDS : CAPSULE; ENCAPSULATE

Item 87

TITLE : IMPROVEMENTS IN OR RELATING TO CIGARETTES, CIGARS, CHEROOTS AND THE LIKE  
PATENT NUMBER : .835923.  
PATENT COUNTRY : GB  
INVENTOR(S) : SANDERSON D E  
ASSIGNEE : NONE GIVEN  
ABSTRACT : EXTINGUISHING AGENT PLACED NEAR THE BUTT END OF THE ROD, E.G., ENCAPSULATED WETTING LIQUID IN HEAT MELTABLE CASING, OR UNDISCLOSED SUBSTANCE TO SMOTHER OR SNUFF OUT COMBUSTION.  
KEYWORDS : SAFETY; SELF-EXTINGUISH; CAPSULE; GEL; WATER

Item 88

TITLE : PROCESS FOR FLAVORING TOBACCO  
PATENT NUMBER : 4617945  
PATENT COUNTRY : US  
INVENTOR(S) : VOS C; BRASSER J  
ASSIGNEE : NAARDEN INTERNATIONAL N V  
ABSTRACT : MICRO-ENCAPSULATED FLAVOR IS ADDED TO TOBACCO BY MIXING THE TOBACCO WITH THE CAPSULES AND AN AQUEOUS ADHESIVE SOLUTION. THE SOLUTION CONTAINS WATER IN A QUANTITY WHICH IS SUFFICIENT TO BE ADSORBED BY THE DRY TOBACCO. MIXING IS CONTINUED UNTIL A DRY PRODUCT IS OBTAINED.  
KEYWORDS : MICROENCAPSULATE; COCOA; DRY BLEND; ADDITIVE; COAT; CASE; PARTICLE SIZE; BINDER; GUM ARABIC; SUGAR; ORGANIC SOLVENT

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Item 89

TITLE : MODERATING AGENT OF CIGARETTE TASTE  
PATENT NUMBER : 4620554  
PATENT COUNTRY : US  
INVENTOR(S) : HORIMOTO Y  
ASSIGNEE : LUXEORD CO  
ABSTRACT : FLAVORING AGENT WHICH IS APPLIED TO THE TOP END OF THE CIGARETTE, ALSO PROVIDES A REDUCTION IN NICOTINE. THE AGENT COMPRISES A POWDER COMPOSED OF ASCORBIC ACID OR ITS ISOMER, DRIED POWDERED COMFREY LEAVES, WHEAT PROTEIN, BEEFSTEAK PLANT, PEPPERMINT AND AN ENCAPSULATED POWDER OF VEGETABLE OIL.  
KEYWORDS : FLAVOR; APPLY; TOBACCO; VITAMIN C; ADDITIVE; CHLOROPHYLL; POTASSIUM NITRATE; VITAMIN B

Item 90

TITLE : STARCH MATRIX MATERIAL CONTAINING IMBEDDED MATERIAL AND PROCESS FOR PREPARING SAME  
PATENT NUMBER : 2876160  
PATENT COUNTRY : US  
INVENTOR(S) : SCHOCH T J; SPENCER C C  
ASSIGNEE : CORN PRODUCTS  
ABSTRACT : METHOD OF DISPERSING WATER-INSOLUBLE MATERIALS, IN SOLUTIONS OF SPECIFIC STARCHES OR DERIVATIVES THEREOF, AND THEN DRYING THE RESULTANT DISPERSION IN ORDER TO PRODUCE NEW AND NOVEL DRY PRODUCTS IN WHICH THE DISPERSED PHASE IS IMBEDDED IN A STARCHY MATRIX AND IS PROTECTED FROM AIR OXIDATION, CHEMICAL CHANGES, EVAPORATION, ETC.  
KEYWORDS : HYDROLYZE; DERIVATIVE; ENCAPSULATE; WATER-SOLUBLE

Item 91

TITLE : FRAGRANCE-RELEASING MICROCAPSULES ON A SEE-THROUGH SUBSTRATE  
PATENT NUMBER : 4493869  
PATENT COUNTRY : US  
INVENTOR(S) : SWEENEY N P; RELYEYA K E; BRUSTAD W L  
ASSIGNEE : MINNESOTA MINING AND MANUFACTURING  
ABSTRACT : APPLIQUES HAVE ENCAPSULATED FLAVOR OR AROMA IN A BINDER ON ONE LAYER AND AN ADHESIVE ON THE OTHER. POLYMERIC BINDER SUCH AS UREA-FORMALDEHYDE RESIN AND ACRYLIC ADHESIVE.  
KEYWORDS : FLAVOR RELEASE; ADHESIVE; VISUAL IMAGE; RUPTURE; BREAK; MICROENCAPSULATE; ENCAPSULATE; SEAL; TAPE; PATCH; NOVELTY; TEAR TAPE; TEAR STRIP

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Item 93

TITLE : FRAGRANCE-RELEASING PULL-APART SHEET  
PATENT NUMBER : 4487801  
PATENT COUNTRY : US  
INVENTOR(S) : TURNBULL E M; CHARBONNEAU J W  
ASSIGNEE : MINNESOTA MINING AND MANUFACTURING  
ABSTRACT : MICROCAPSULES CONTAINING MATERIAL THEREIN CAN BE BURST TO RELEASE THE ENCAPSULATED MATERIAL WHEN THE CAPSULES ARE CONTAINED IN AN ADHESIVE SECURING TWO SURFACES TOGETHER AND THE SURFACES ARE PULLED APART. NOT INTENDED TO BE REBONDABLE OR RECLOSEABLE.  
KEYWORDS : MICROCAPSULE; RUPTURE; FLAVOR RELEASE; AROMA; LAYER; LAMINATE; COLOR; AEROSOL; PACKAGING; PAPER; TENSILE STRENGTH; MOISTURE ACTIVATED; POLYMER; TAMPER EVIDENT

Item 94

TITLE : PREPARATION OF SOLID FLAVORING COMPOSITIONS  
PATENT NUMBER : 2856291  
PATENT COUNTRY : US  
INVENTOR(S) : SCHULTZ T H  
ASSIGNEE : USA  
KEYWORDS : FLAVOR; ENCAPSULATE; OIL; SUGAR

Item 95

TITLE : PRODUCTION OF FLAVORING OIL COMPOSITIONS  
PATENT NUMBER : 2857281  
PATENT COUNTRY : US  
INVENTOR(S) : SCHULTZ T H; BROWN A H; WALKER L H  
ASSIGNEE : USA  
KEYWORDS : FLAVOR; ENCAPSULATE; SUGAR; EMULSION

Item 73

TITLE : BEVERAGE COMPOSITIONS  
PATENT NUMBER : 1082039  
PATENT COUNTRY : CA  
INVENTOR(S) : JOHNSON R S; POTTER J K  
ASSIGNEE : UNILEVER  
ABSTRACT : DRY POWDERED CONCENTRATE, SUCH AS TEA AND COFFEE, IN WHICH WATER-SOLUBLE FLAVORANT GRANULES ARE COATED WITH INSOLUBLE POWDERED BEVERAGE.  
KEYWORDS : COMPOSITION; POWDER; WATER-SOLUBLE; FLAVOR; GRANULE; COLOR; ADHERE; BAG; ESSENTIAL OIL; ENCAPSULATE

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Item 96

TITLE : ELECTROSTATIC ENCAPSULATION  
PATENT NUMBER : 3208951  
PATENT COUNTRY : US  
INVENTOR(S) : BERGER B B; MILLER C D; LANGER G  
ASSIGNEE : IIT RESEARCH INSTITUTE  
ABSTRACT : ENCAPSULATION OF A LIQUID BY A SOLID BY ATOMIZING BOTH.  
ACHIEVED BY ELECTROSTATIC INTERACTION OF AEROSOL  
PARTICLES.  
KEYWORDS : ENCAPSULATE; ATOMIZE; PARTICLE; CHARGE; MIST

Item 97

TITLE : MICROCAPSULES, PROCESS FOR THEIR FORMATION AND TRANSFER  
SHEET RECORD MATERIAL COATED THEREWITH  
PATENT NUMBER : 3418656  
PATENT COUNTRY : US  
INVENTOR(S) : VASSILIADES A E  
ASSIGNEE : U.S. PLYWOOD-CHAMPION PAPERS  
ABSTRACT : PROCESSES FOR ENCAPSULATING MINUTE OIL-IN-WATER EMULSION  
DROPLETS, THE PRODUCTS PRODUCED THEREBY, AND THE UTILITY  
THEREOF IN PRESSURE-RESPONSIVE, TRANSFER-COPY SYSTEMS.  
KEYWORDS : MICROCAPSULE; MICROENCAPSULATE; ENCAPSULATE; DROPLET

Item 98

TITLE : MICROCAPSULES, PROCESS FOR THEIR FORMATION AND TRANSFER  
SHEET RECORD MATERIAL COATED THEREWITH  
PATENT NUMBER : 3418250  
PATENT COUNTRY : US  
INVENTOR(S) : VASSILIADES A E  
ASSIGNEE : U.S. PLYWOOD-CHAMPION PAPERS  
ABSTRACT : PROCESSES FOR ENCAPSULATING MINUTE OIL DROPLETS, THE  
PRODUCTS PRODUCED THEREBY, AND THE UTILITY THEREOF IN  
PRESSURE-RESPONSIVE, TRANSFER-COPY SYSTEMS.  
KEYWORDS : MICROCAPSULE; MICROENCAPSULATE; ENCAPSULATE; DROPLET

Item 99

TITLE : PROCESS OF MAKING MICROCAPSULES  
PATENT NUMBER : 3173878  
PATENT COUNTRY : US  
INVENTOR(S) : REYES Z  
ASSIGNEE : INTERNATIONAL BUSINESS MACHINES  
KEYWORDS : MICROCAPSULE; ENCAPSULATE; COATING

Item 100

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TITLE : ENCAPSULATION PROCESS AND ITS PRODUCT  
PATENT NUMBER : 3155590  
PATENT COUNTRY : US  
INVENTOR(S) : MILLER R E; ANDERSON J L  
ASSIGNEE : NATIONAL CASH REGISTER CO  
ABSTRACT : CYCLIC PROCESS OF MANUFACTURING MINUTE CAPSULES IN LIQUID MANUFACTURING VEHICLE SYSTEMS.  
KEYWORDS : ENCAPSULATE; MICROCAPSULE

Item 101

TITLE : COACERVATION PROCESS FOR ENCAPSULATION OF LIPOPHILIC MATERIALS  
PATENT NUMBER : 3069370  
PATENT COUNTRY : US  
INVENTOR(S) : JENSEN E H; WAGNER J G  
ASSIGNEE : UPJOHN CO  
ABSTRACT : ENCAPSULATED, FINELY DIVIDED LIPOPHILIC MATERIAL.  
KEYWORDS : ENCAPSULATE; LIQUID; POLYMER

Item 102

TITLE : ARTICLE CONTAINING MICROENCAPSULATED MATERIALS  
PATENT NUMBER : 4654256  
PATENT COUNTRY : US  
INVENTOR(S) : DOREE R H; UGRO J V  
ASSIGNEE : MINNESOTA MINING AND MANUFACTURING  
ABSTRACT : RUPERTABLE MICROCAPSULES IN A BINDER ARE APPLIED BY HEAT AND PRESSURE TO POROUS SUBSTRATE, OR CAN BE EMBEDDED WITHOUT USE OF BINDER. USES DISCLOSED AS TEXTILES, ADHESIVES FOR DECALS, ETC., FRAGRANCE OR FLAVOR RELEASE IN GRAPHICS, DECORATIVE ARTICLES. POTENTIAL FOR PACKAGING.  
KEYWORDS : PRINT; COAT; THERMOPLASTIC; APPLY; MICROCAPSULE; MICROENCAPSULATE; FLAVOR RELEASE

Item 103

TITLE : PROCESS OF ENCAPSULATING AN OIL AND PRODUCT PRODUCED THEREBY  
PATENT NUMBER : 3971852  
PATENT COUNTRY : US  
INVENTOR(S) : BRENNER J; HENDERSON G H; BERGENSTEN R W  
ASSIGNEE : POLAK'S FRUTAL WORKS INC  
ABSTRACT : OUTER MATRIX POLYSACCHARIDE: GUM, STARCH DERIVATIVE, HYDROLYZED STARCH.  
KEYWORDS : ENCAPSULATE; HYDROLYZE; CARBOHYDRATE

Item 104

TITLE : IMPROVEMENTS IN CIGARETTES

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PATENT NUMBER : 1194572  
PATENT COUNTRY : GB  
INVENTOR(S) : GREEN S J  
ASSIGNEE : BRITISH-AMERICAN TOBACCO  
ABSTRACT : VOLATILE FLAVOR ADDITIVES APPLIED TO FILTER MATERIAL OR TOW AS A SLURRY OF CAPSULES IN WATER. APPLIED BY SPRAYING, COATING, ETC. EXAMPLE IS MENTHOL IN SPHERICAL GELATIN MICRO CAPSULES.  
KEYWORDS : FLAVOR RELEASE; ENCAPSULATE; RUPTURE; MANUAL; BREAKABLE

Item 105

TITLE : TOBACCO CONTAINING ENCAPSULATED FLAVOR  
PATENT NUMBER : 1284151  
PATENT COUNTRY : GB  
INVENTOR(S) : QUINN A D  
ASSIGNEE : INTERNATIONAL FLAVORS & FRAGRANCES  
ABSTRACT : MULTIPLE SMALL FLAVOR CAPSULES IN FILLER, OPENED BY BURNING COAL; MAKE NOISE.  
KEYWORDS : ENCAPSULATE; CAPSULE; OPEN; HEAT

Item 106

TITLE : TOBACCO WRAPPER, TOBACCO PRODUCT EMBODYING SAME AND METHOD FOR MAKING THE TOBACCO PRODUCT  
PATENT NUMBER : 945142  
PATENT COUNTRY : GB  
INVENTOR(S) : NONE GIVEN  
ASSIGNEE : R J REYNOLDS  
ABSTRACT : CIGARETTE PAPER OR WRAPPER HAVING PORTION COATED WITH ENCAPSULATED FLAVOR.  
KEYWORDS : ENCAPSULATE; STRIPE; POLYSACCHARIDE; POLYPEPTIDE

Item 107

TITLE : CIGARETTES AND METHOD OF PROVIDING THEM WITH A FLAVORANT  
PATENT NUMBER : 1349537  
PATENT COUNTRY : GB  
INVENTOR(S) : RASKINO L M A; FOLEY M G; PAYNE G S  
ASSIGNEE : IMPERIAL GROUP  
ABSTRACT : MENTHOL SOLUTION MICROENCAPSULATED IN GELATIN GUM.  
KEYWORDS : FLAVOR; CIGARETTE; MICROENCAPSULATE; SMOKING PRODUCT; ADDITIVE; ENCAPSULATE; FILLER

Item 108

TITLE : IMPROVEMENTS RELATING TO TOBACCO SMOKE FILTERS  
PATENT NUMBER : 1257290  
PATENT COUNTRY : GB  
INVENTOR(S) : HORSEWELL H G; TOLMAN T W C  
  
ASSIGNEE : BRITISH-AMERICAN TOBACCO  
ABSTRACT : MULTIPLE FILTER WITH MANUALLY RUPTURABLE CAPSULE WITH HUMIDIFIER (INNER) AND POORLY ABSORBENT (OUTER) SECTION. THE TOW OF THE ABSORBENT MIDDLE SECTION MAY ALSO CONTAIN POLYETHYLENE IMINE AND/OR ZINC ACETATE FILTER ADDITIVES. THE ENCAPSULATING AGENT MAY BE WAX OR A RESIN OR POLYMER. END SEAL MAY BE SCOTCH TAPE. END SECTIONS ARE CELLULOSE ACETATE AND MIDDLE IS PAPER.  
KEYWORDS : HUMIDIFY; ABSORB; WATER; ADDITIVE; CELLULOSE ACETATE; COMPOSITE; MOISTURE RELEASE; SELECTIVE; HCN; HYDROGEN SULPHITE; ENCAPSULATE

2028671841

TITLE : ADDITIVES FOR SMOKING TOBACCO PRODUCTS  
PATENT NUMBER : 3006347  
PATENT COUNTRY : US  
INVENTOR(S) : KEATON J L  
  
ASSIGNEE : R J REYNOLDS  
ABSTRACT : UNIFORM APPLICATION OF FLAVORS SUCH AS VOLATILE ESSENTIAL OILS OR OTHER FLAVOR TO CIGARETTE WRAPPERS, USING AS ENCAPSULATING FILM A POLYSACCHARIDE, POLYPEPTIDE OR MIXTURE. PREFERABLY LESS THAN 25 PERCENT OF THE PAPER IS COATED IN AN INTERMITTENT PATTERN. MAY ALSO BE APPLIED ONLY ON THE SEAM OR AS THE ADHESIVE SO AS NOT TO BE VISIBLE. MINIMIZES FLAVOR LOSS IN STORAGE OR ROD MAKING.  
  
KEYWORDS : ADDITIVE; ENCAPSULATE; FLAVOR; WRAPPER; STARCH; FILM; PAPER; SMOKING PRODUCT; STORAGE STABLE; PASTE; FLAVOR LOSS

Item 112

TITLE : POWDERED INSTANT BEVERAGE MIX  
PATENT NUMBER : 3023106  
PATENT COUNTRY : US  
INVENTOR(S) : COMMON J L  
ASSIGNEE : GENERAL FOODS CORPORATION  
ABSTRACT : INSTANT BEVERAGE MIX WITH GUM-ENCAPSULATED FAT.  
KEYWORDS : ENCAPSULATE; POWDER; MIXTURE

Item 113

TITLE : CIGARETTE FILTER  
PATENT NUMBER : 1692936  
PATENT COUNTRY : DE  
INVENTOR(S) : NONE GIVEN  
ASSIGNEE : NATIONAL CASH REGISTER CO  
ABSTRACT : SMALL CAPSULES TEMPORARILY SEALING IN A FLUID AROMATIC MATERIAL WHICH IS RELEASED BY PRESSURE.  
KEYWORDS : CAPSULE; AROMA; FLAVOR RELEASE; RELEASE; FLAVOR; ENCAPSULATE; SQUEEZE

Item 114

TITLE : IMITATION CIGARETTE  
PATENT NUMBER : 3347231  
PATENT COUNTRY : US  
INVENTOR(S) : CHANG C  
ASSIGNEE : NONE GIVEN  
ABSTRACT : SUBSTITUTE CIGARETTE OR AEROSOL INHALANT DEVICE CONTAINING A FRANGIBLE CAPSULE OF LIQUID FLAVOR OR MEDICAMENT. VARIOUS INTERNAL MEANS ARE PROVIDED FOR BREAKING THE CAPSULE, E.G., PULLING A STRING OR MOVING A DISC TO PUNCTURE. THE TYPES OF VOLATILE MATERIALS ARE NOT DISCLOSED. THE SIMULATED CIGARETTE TUBE IS SAID TO BE MADE OF INTRICATELY FOLDED PAPER BUT SIGNIFICANCE NOT CLEAR. THE FLAVOR CHAMBER IS SHOWN IN SEVERAL POSITIONS ALONG THE LENGTH, ALSO A DUAL FLAVOR ELEMENT, AND THE TUBE APPEARS TO HAVE A CENTRAL PASSAGE OR CHANNEL. ONE VERSION HAS

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TOBACCO FILLER AS IN A CONVENTIONAL ROD BUT IS  
NONCOMBUSTING.

KEYWORDS : SMOKELESS; ENCAPSULATE; FLAVOR RELEASE; SUBSTITUTE  
CIGARETTE; INHALANT DEVICE; BREAK; FLAVOR CHAMBER

Item 115

TITLE : CIGARETTE AND SMOKE FILTER AND FLAVOR  
PATENT NUMBER : 3339557  
PATENT COUNTRY : US  
INVENTOR(S) : KARALUS L W  
ASSIGNEE : NONE GIVEN  
ABSTRACT : CIGARETTE HAS A SEALED FLAVOR CHAMBER IN THE FILTER WHICH  
IS MANUALLY BROKEN OR ACTUATED ON REMOVAL OF THE CIGARETTE  
FROM THE PACK. THE FILTER CONTAINS MOLDED, COMPRESSED OR  
COMPACTED CHARCOAL GRANULES HAVING RANDOM PASSAGES. A  
BINDER SUCH AS PECTIN MAY BE ADDED. IT MAY ALSO BE FORMED  
BY PYROLYZING A COMPRESSED QUANTITY OF CARBON FIBERS INTO  
A PELLET. IN THE FILTER COMPONENT THE PELLET OR CHARCOAL  
CHARGE IS PLACED IN A JACKET BETWEEN TWO SEALING ELEMENTS  
OF FRANGIBLE, MOISTURE CONTAINING CAPSULES WHICH ARE  
SECURED AT POINTS AND PROVIDED WITH TEAR TAPES OR STRINGS  
FOR PULLING THESE OUT. THUS THE ENDS OF THE CHARCOAL MASS  
CAN BE MOISTENED. THE CHAMBERS IN WHICH THE RUPTURABLE  
CAPSULES ARE PLACED ARE COATED OR LINED WITH PECTIN. THE  
FILTER WRAP SHOULD BE MOISTUREPROOF. THE FILTER PLUG MAY  
BE CELLULOSIC AND MAY ALSO CONTAIN CHARCOAL. ONE VERSION  
SHOWS A SMALL CENTRAL PASSAGE OR BORE FROM THE MOUTH END  
LEADING TO A HOLLOW SPACE AND A CUP-SHAPED DEFLECTOR FOR  
SMOKE FLOW TO CREATE A VENTURI EFFECT.  
KEYWORDS : FLAVOR CHAMBER; ENCAPSULATE; DENSIFY; FLAVOR CARRIER;  
FLAVOR RELEASE; TEAR TAPE; BREAK; RUPTURE

Item 110

TITLE : METHOD OF COOLING CIGARETTE SMOKE  
PATENT NUMBER : 3547130  
PATENT COUNTRY : US  
INVENTOR(S) : HARLOW E S; FLINT J R  
ASSIGNEE : AMERICAN TOBACCO  
ABSTRACT : RUPTURABLE CAPSULES OF ETHANOL AND OR WATER IN FILTER.  
FILTER IS MANUALLY SQUEEZED TO RELEASE LIQUID WHICH  
VAPORIZES. FILTER MATERIAL MAY BE FIBER, PAPER, OR  
GRANULAR FILLER.  
KEYWORDS : RUPTURE; CAPSULE; SQUEEZE; VAPORIZ; VOLATILE; ALCOHOL;  
HYDROCARBON; MICA; ENCAPSULATE; MICROCAPSULE; BREAK

Item 117

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TITLE : SMOKING ARTICLES HAVING ENCAPSULATED TOBACCO ADDITIVES AND THEIR MANUFACTURE  
PATENT NUMBER : 3162199  
PATENT COUNTRY : US  
INVENTOR(S) : MOLL C J  
ASSIGNEE : BROWN & WILLIAMSON  
ABSTRACT : THE CIGARETTE CONTAINS A SMALL TUBE OR RIBBON-LIKE CAPSULE HOLDING FLAVORANT MATERIAL FOR RELEASE AS THE CIGARETTE IS SMOKED. THE CAPSULE IS PREFERABLY AN EXTRUDED TUBE INTO WHICH THE FLAVORANT IS PLACED OR IS MADE BY FOLDING A RIBBON OR BAND OVER THE ADDITIVE FOR INSERTION INTO THE CIGARETTE. A PROCESS IS DESCRIBED FOR MAKING THE ROD AND INCORPORATING THE ENCAPSULATED FLAVOR TUBE IN THE TOBACCO FILLER JUST INSIDE THE WRAPPER. THE TUBULAR MATERIAL CAN BE THERMOPLASTIC AND THE FLAVORANT IN POWDER FORM. THE RIBBON OR TUBE MAY BE PINCHED OR SEALED AT INTERVALS ALONG THE LENGTH TO FORM SEGMENTS OR CHAMBERS FOR GRADUAL FLAVOR RELEASE. POLYETHYLENE, CELLULOSIC MATERIALS OR GUMS CAN BE USED AS ENCAPSULATING MATERIALS AND VARIOUS FLAVORS ARE DISCLOSED, INCLUDING MENTHOL AND DIFFERENT TOBACCO FLAVORS OR BLENDS.  
KEYWORDS : FLAVOR CORE; FLAVOR RELEASE; PROGRAMMED; ROD MAKING; THERMAL; DUAL FILLER; INSERT; AXIAL

Item 118

TITLE : ON PAGE FRAGRANCE SAMPLING DEVICE  
PATENT NUMBER : 4606956  
PATENT COUNTRY : US  
INVENTOR(S) : CHARBONNEAU J W; RELYE A K E  
ASSIGNEE : MINNESOTA MINING AND MANUFACTURING  
ABSTRACT : MICROENCAPSULATED MATERIALS ARE RELEASED BY RUPTURING OF AN ADHESIVE LAYER ON A SUBSTRATE CONTAINING THE CAPSULES. AT LEAST TWO SHEETS ARE SECURED BY THE ADHESIVE LAYER CONTAINING THE MICROCAPSULES. AT LEAST ONE OF SAID TWO SHEETS HAS AN ADHESIVE ON THE OUTER FACE OF SAID AT LEAST ONE SHEET.  
KEYWORDS : MULTILAYER; AROMA; COATED; PULL APART; LAMINATE; LABEL; FLAVOR RELEASE; TEAR STRIP; TEAR TAPE; BINDER; VISUAL IMAGE; ODOR; MICROENCAPSULATE; RUPTURE

Item 119

TITLE : PROCESS FOR PREPARING A SOLID FLAVORING COMPOSITION  
PATENT NUMBER : 2904440  
PATENT COUNTRY : US  
INVENTOR(S) : DIMICK K P; MAKOWER B  
ASSIGNEE : USA  
KEYWORDS : FLAVOR; SOLVENT; EXTRACT; SORBITOL; ENCAPSULATE; FRUIT

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Item 120

TITLE : STABLE CINNAMON-FLAVORED CHEWING GUM COMPOSITION  
PATENT NUMBER : 4722845  
PATENT COUNTRY : US  
INVENTOR(S) : CHERUKURI S R; MANSUKHANI G; JACOB K C  
ASSIGNEE : WARNER-LAMBERT  
ABSTRACT : CONTROLLED RELEASE SWEETENER FOR CHEWING TOBACCO.  
COMPRISSES A GUM BASE, CINNAMON FLAVOR AND A SWEETENER  
DELIVERY SYSTEM BASED ON A DIPEPTIDE OR AMINO ACID  
SWEETENER, E.G. ASPARTAME OR SACCHARINE, ENCAPSULATED IN A  
MIXTURE OF FAT AND HIGH MELTING-POINT (106 DEGREES)  
POLYETHYLENE WAX. THE PROCESS PROVIDES AN IMPROVED  
PROTECTIVE COATING FOR CORE MATERIALS PREVENTING CHEMICAL  
REACTIONS BETWEEN FOR EXAMPLE LECITHIN, CINNAMON AND  
ASPARTAME. THE SPRAY CONGEALING AND AGGLOMERATION OF  
PARTICLES CHANGES THE NEEDLE LIKE ASPARTAME CRYSTALS INTO  
A ROUNDED MATRIX AGGREGATE.  
KEYWORDS : DELAYED RELEASE; SLOW RELEASE; CARRIER; SUSTAINED; FLAVOR  
RELEASE; HYDROPHOBIC; SPHERICAL

Item 121

TITLE : MANUFACTURE OF HOLLOW FINE TUBULAR DRUG DELIVERY SYSTEMS  
PATENT NUMBER : 4720384  
PATENT COUNTRY : US  
INVENTOR(S) : DI LUCCIO R C; DUGGINS R B; SHEFTER E  
ASSIGNEE : E I DUPONT  
ABSTRACT : CONTROLLED RELEASE ENCAPSULATED PHARMACEUTICALS  
COMPRISED OF SEALED SHEATH AND CASE POLYMERIC TUBE.  
KEYWORDS : DELAY; DELAYED RELEASE; SLOW; SLOW RELEASE; SUSTAINED;  
OSMOSIS; MEMBRANE; MIGRATE; DOSE; POLYOLEFIN; POROUS;  
POROSITY; ENCAPSULATE

Item 122

TITLE : PROCESS FOR ENCAPSULATING SUBSTANCES BY MEANS OF  
MICROORGANISMS AND THE ENCAPSULATED PRODUCTS OBTAINED  
THEREBY  
PATENT NUMBER : 0085805  
PATENT COUNTRY : EP  
INVENTOR(S) : GERMAN R J; MORRIS G G; PANNELL N A  
ASSIGNEE : DUNLOP CO  
ABSTRACT : UTILIZES A GROWN MICROBE, ONE HARVESTED FROM A CULTURE,  
CONTACTED WITH AN ORGANIC LIPID-EXTENDING SUBSTANCE, I.E.,  
AN ORGANIC LIQUID SOLVENT FOR THE LIPID CAPABLE OF BEING  
ABSORBED BY THE MICROORGANISM AND RETAINED PASSIVELY. THE  
TREATED MICROBE IS THEN SIMULTANEOUSLY SUBSEQUENTLY  
CONTACTED WITH THE MATERIAL TO BE ENCAPSULATED. YEAST OR A

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FUNGUS IS PREFERRED, AND THE MICROBE SHOULD HAVE A LARGE CELL SIZE. THE LIPID IS TAKEN IN BY DIFFUSION. THE METHOD PARTICULARLY SUITED FOR DYES, E.G., LEUCO DYES, BUT ALSO CAN BE USED FOR FLAVORS, PHARMACEUTICALS, BINDERS, ADHESIVES, INSECTICIDES OR OTHER DELAYED RELEASE MATERIALS. MAY BE ADHERED TO A SUBSTRATE SUCH AS COATING ON PAPER.

KEYWORDS : FIX; LIPOMYCES; CANDIDA; TRICHOSPORON; CLOVE OIL; ESSENTIAL OIL; OSMOSIS; METHANOL; ALCOHOL; INK; ADHESIVE; COLOR RELEASE; FLAVOR RELEASE; PRINT; PRESSURE; RUPTURE

Item 123

TITLE : STABLE POWDERED PERFUME COMPOSITION, ESPECIALLY FOR TOBACCO PRODUCTS  
PATENT NUMBER : 53-104743  
PATENT COUNTRY : JP  
INVENTOR(S) : NONE GIVEN  
ASSIGNEE : JAPAN TOBACCO & SALT PUBLIC CORP  
ABSTRACT : PREPARED BY ADDING POLYSACCHARIDE TO MIXED SUGAR SOLUTION, HEATING TO FORM SUGAR POLYMER; ADDING PERFUME AND DRYING.  
KEYWORDS : SUCROSE; HEAT; MIX; ENCAPSULATE; COPOLYMERIZE; CARBOHYDRATE; STORAGE; COAGULATE; GRANULE; ADDITIVE; PROTECT; DRY

Item 125

TITLE : ARTICLES AND METHOD  
PATENT NUMBER : 3599859  
PATENT COUNTRY : US  
INVENTOR(S) : MAIERSON T  
ASSIGNEE : NATIONAL CASH REGISTER CO

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ABSTRACT : PACKAGE OR BOX OPENING FLAP HAVING AT LEAST ONE FLEXIBLE TEAR STRING CONTAINING PRESSURE-RUPTURABLE CAPSULES FOR FLAVOR RELEASE BETWEEN THE PACK WALL OR LID AND THE TEAR STRIP. CLAIMS TO CONTAINER OR PACKAGE. THE TAPE CAN BE A PLURALITY OF PARALLEL MONOFILAMENTS. DISCLOSES USING IN CONJUNCTION WITH DELAYED RELEASE CAPSULES.

KEYWORDS : FLAVOR RELEASE; TEAR TAPE; LAYER; ENCAPSULATE; LAMINATE; CLOSURE; CARDBOARD; TEAR STRIP; SPHERICAL CELL; MICROENCAPSULATE; VOLATILE; ESSENTIAL OIL

Item 126

TITLE : MICROBIAL ENCAPSULATION  
PATENT NUMBER : 0242135  
PATENT COUNTRY : EP  
INVENTOR(S) : PANNELL N A  
ASSIGNEE : AD2 LTD  
ABSTRACT : ABSORPTION OF FLAVORS SUCH AS ESSENTIAL OILS OR VOLATILES BY DIFFUSION INTO A CULTURED, GROWN MICROBE CELL WALL, WITHOUT THE NEED FOR A HIGH MICROBIAL LIPID CONTENT OR A LIPID-EXTENDING SOLVENT MATERIAL OR PLASMOLYSER. THE ENCAPSULATABLE MATERIAL SHOULD BE A LIQUID OR IN A SOLVENT SUCH AS A LOWER ALCOHOL, WHICH CAN BE REMOVED BY DRYING. THE MICROBE IS PREFERABLY A FUNGUS SUCH AS YEAST, AND OF LARGE CELL SIZE. ALSO USEFUL FOR ENCAPSULATING OTHER MATERIALS. THE MICROBE MAY BE PRETREATED OR CONCURRENTLY TREATED TO ENHANCE PERMEABILITY.

KEYWORDS : BACTERIA; ALGAE; MENTHOL; STABLE; MICROENCAPSULATE; EMULSION; GLOBULE; FLAVOR RELEASE; CARRIER; FIX; OSMOSIS; RUPTURE

Item 127

TITLE : THERMAL INDICATORS FOR SMOKING ARTICLES  
PATENT COUNTRY : US  
INVENTOR(S) : SPRINKEL F M; MORGAN C H; LOSEE D B  
ASSIGNEE : PHILIP MORRIS  
ABSTRACT : THERMAL INDICATORS FOR NON-COMBUSTION SMOKING ARTICLES WHICH PHYSICALLY CHANGE WHEN HEATED TO PROVIDE VISUAL INDICATIONS OF TEMPERATURE CHANGES. THE INDICATORS COMPRIZE WAXES OR OTHER COMPOUNDS WHICH MELT AWAY TO REVEAL COLORED SUBSTRATES, OR COMPRIZE MICROENCAPSULATED CHEMICALS WHICH ARE RELEASED WHEN HEATED TO CAUSE INKING OR DYEING. THE THERMAL INDICATORS ARE PRINTED IN A VARIETY OF PATTERNS ALONG THE LENGTH OF THE SMOKING ARTICLES TO SHOW TEMPERATURE CHANGES AND TO INDICATE WHETHER THE SMOKING ARTICLE IS FINISHED AND SHOULD BE DISCARDED. A  
KEYWORDS : BETA; INK JET; INDICATOR; WAX; RELEASE; PATTERN; STERIC ACID; DOT; MARKING; INK; DETECT; MELT; MONITOR; COLOR CHANGE; GUM ARABIC; PRINT; PRINT WHEEL; CARBON; THERMALLY

Edit

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RESPONSIVE; HEAT-SENSITIVE; HYDROCARBON; HARDEN; POLYVINYL ACETATE; PECTIN; FATTY ACID ESTER; APPLY; HEAT RELEASE; MICROENCAPSULATE; ENCAPSULATE

PM NUMBER/DATE : PM1332

Item 128

TITLE : PAPER PRODUCT FOR STORING FRAGRANCES  
PATENT NUMBER : 4746567  
PATENT COUNTRY : US  
INVENTOR(S) : ZELTER J E  
ASSIGNEE : YLANG  
ABSTRACT : COMPRISES A PAPER SUPPORT IN WHICH THERE IS EMBEDDED A QUANTITY OF MICROCAPSULES IN SOME OF WHICH THERE IS ENCAPSULATED A FRAGRANT ESSENCE WHILE OTHERS ARE WITHOUT FRAGRANCE, E.G., FILLED WITH A NEUTRAL FLUID. THE MICROCAPSULES ARE INCORPORATED IN THE PAPER DURING ITS PREPARATION FROM PASTE. THE NEUTRAL CAPSULES ARE LAYERED TO PROTECT THE FRAGILE FLAVOR RELEASE CAPSULES DURING HANDLING. RUPTURED BY MANUAL PRESSURE, I.E., RUBBING OR CRUSHING. GELATINE ENCAPSULATION AGENT.  
KEYWORDS : LAMINATE; AROMA; SHEET; MICROENCAPSULATE; ENCAPSULATE; MICROCAPSULE; FLAVOR RELEASE

Item 129

TITLE : ELASTOMER ENCASED ACTIVE INGREDIENTS  
PATENT NUMBER : 0288909  
PATENT COUNTRY : EP  
INVENTOR(S) : KEHOE G S  
ASSIGNEE : NABISCO INC  
ABSTRACT : SLOW FLAVOR RELEASE ENCAPSULATED ADDITIVE FOR CHEWING GUM, CHEWING TOBACCO AND SUCH. THE RELEASE RATE CAN BE PRESELECTED BY VARYING THE HARDNESS OR SOFTNESS OF THE COATING, THE AMOUNT OF PLASTICIZER, FILLER, ETC. IN THE HIGH SHEAR MIXTURE. DISCLOSES ADDITIVES WHICH ARE REACTIVE AFTER RELEASE BY MASTICATION AND MOISTURE, SUCH AS CALCIUM CARBONATE AND CITRIC ACID TO RELEASE CARBON DIOXIDE.  
KEYWORDS : EFFERVESCENT; DELAYED; DELAYED RELEASE; SWEETENER; EXTEND; COLOR; SUSTAINED; SLOW RELEASE; ENCAPSULATE; CHEWING GUM

Item 130

TITLE : PACKAGING APPARATUS METHOD AND PRODUCT  
PATENT NUMBER : 3785556  
PATENT COUNTRY : US  
INVENTOR(S) : WATKINS L D  
ASSIGNEE : NONE GIVEN  
ABSTRACT : DIRECTED TO IMPROVED MEANS AND METHOD FOR ENCAPSULATING LIQUIDS WITHIN A HEAT-SEALED PLASTIC PACKAGE TO PRODUCE AN

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Item 133

TITLE : PACKAGE OPENING SYSTEM  
PATENT NUMBER : 4720423  
PATENT COUNTRY : US  
INVENTOR(S) : FRASER A D  
ASSIGNEE : MINNESOTA MINING AND MANUFACTURING  
ABSTRACT : A MULTILAYER STRIP HAVING AN ADHESIVE BETWEEN LAYERS, THE ADHESIVE CONTAINING FRANGIBLE MICROCAPSULES CARRYING A IMPROVED PRODUCT, PARTICULARLY USEFUL IN DISSEMINATING VAPORIZABLE LIQUIDS. PROCESS FOR ENCASING VOLATILES BETWEEN SHEETS OF PLASTIC FILM FOR AROMA RELEASE OR SUSTAINED RELEASE OF DEODORANTS, INSECTICIDES AND SUCH. CONTROLLED THROUGH PERMEABILITY OF FILM, E.G., POLYOLEFIN.  
KEYWORDS : PAD; FLAVOR RELEASE; SLOW RELEASE; VAPORIZ; DIFFUSE; TUBULAR; PACKET; HEAT SEAL

Item 131

TITLE : IMPREGNATED POROUS GRANULES WITH SLOW RELEASE PORE MEMBRANES AND PROCESS THEREFOR  
PATENT NUMBER : 4223070  
PATENT COUNTRY : US  
INVENTOR(S) : HAHN A U; RIDER R H; SCHER H B; HARGROVE G L  
ASSIGNEE : STAUFFER CHEMICAL CO  
ABSTRACT : OPEN-ENDED PORES OF A POROUS GRANULE ARE FILLED WITH A LIQUID MATERIAL WHICH IS AT LEAST PARTIALLY IMMISCIBLE WITH WATER, AND SEALED WITH A POROUS POLYUREA MEMBRANE WHICH LIMITS THE RELEASE RATE OF THE MATERIAL INTO THE SURROUNDING MEDIUM. THE COATING ALLOWS CONTROLLED, SUSTAINED RELEASE OF FLAVOR, PHARMACEUTICALS, ETC. AND MAY BE WATER-INSOLUBLE OR DISSOLVABLE. IMPROVED ENCAPSULATION SINGLE COATING PROCESS INVOLVES CATALYST AND ORGANIC POLYISOCYANATE.  
KEYWORDS : POLYMERIC; FLAVOR RELEASE; INSECTICIDE; PARTICULATE FRAGRANT LIQUID THEREIN, CAN BE USED AS A TEAR STRIP FOR A PACKAGE OVERWRAP. UPON PULLING THE OUTWARD LAYER OF SAID STRIP, THE OVERWRAP IS OPENED AND THE FRAGRANCE IS RELEASED. FOR CIGARETTE AND FOOD PACKAGES.  
KEYWORDS : FRESHNESS; AROMA; FLAVOR RELEASE; TEAR TAPE; MICROENCAPSULATE; MENTHOL; PVA; FLIP-TOP; SHEET; FILM; MENTHOL; TEAR STRIP; MICROCAPSULE; TAB; LAMINATE; ENCAPSULATE; RUPTURE; PULL APART; ODOR; THERMAL; PRESSURE SENSITIVE; BINDER; COATED

Item 134

TITLE : METHOD FOR DELIVERING AN ACTIVE INGREDIENT BY CONTROLLED TIME RELEASE UTILIZING A NOVEL DELIVERY VEHICLE WHICH CAN BE PREPARED BY A PROCESS UTILIZING THE ACTIVE INGREDIENT AS A POROGEN  
PATENT NUMBER : 4690825  
PATENT COUNTRY : US  
INVENTOR(S) : WON R  
ASSIGNEE : ADVANCED POLYMER SYSTEMS  
ABSTRACT : POROUS POLYMER BEADS AS CARRIERS FOR CONTROLLED RELEASE OF FRAGRANCES, PHARMACEUTICALS, ETC. NON-COLLAPSIBLE WITH HIGH MECHANICAL STRENGTH OVER MICROENCAPSULATED FORMS. COPOLYMER IS STYRENE AND DIVINYLBENZENE. THE BEADS MAY BE DRIED TO A POWDER. MINERAL OIL USED AS A POROGEN.  
KEYWORDS : REINFORCED; DELAYED; STABLE; MOISTURE RESISTANCE; NON-TOXIC; SPONGE-LIKE; MATRIX; SPHERICAL; FLAVOR RELEASE; VOLATILES

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Item 136

TITLE : SMOKING ARTICLE WITH AN ENCLOSED HEAT CONDUCTIVE CAPSULE CONTAINING AN AEROSOL FORMING SUBSTANCE  
PATENT NUMBER : 0305788  
PATENT COUNTRY : EP  
INVENTOR(S) : CLEARMAN J F; CASEY W J; PURIN O P; STEWART G M  
ASSIGNEE : R J REYNOLDS  
ABSTRACT : WHEN THE SMOKING ARTICLE, WHICH CONTAINS A COMBUSTIBLE FUEL ELEMENT, IS LIT, THE AEROSOL FORMING MATERIAL IN A HEAT CONDUCTIVE CAPSULE EXPANDS RAPIDLY AND IS RELEASED BY, FOR EXAMPLE, THE RUPTURE OF THE CAPSULE. PREFERABLY, A SORBENT PROVIDED ADJACENT TO THE CAPSULE, TEMPORARILY RETAINS THE AEROSOL FORMER, TO PROVIDE A MORE UNIFORM AEROSOL DELIVERY. ENCAPSULATION OF THE AEROSOL-FORMING SUBSTANCE REDUCES, OR ELIMINATES ITS MIGRATION TO OTHER PARTS, E.G. THE FUEL ELEMENT, BY REDUCING OR ELIMINATING MOISTURE PICK-UP, WHICH REDUCES THE HEAT REQUIRED TO PRODUCE AN AEROSOL, AND RESULTS IN A COOLER AEROSOL DELIVERY. LESS CARBON MONOXIDE IS PRODUCED AND LESS DECOMPOSITION OF THE AEROSOL-FORMING MATERIALS OCCUR. THE CAPSULE IS MADE FROM ALUMINUM FOIL OR THIN METAL, CRIMPED TO SEAL ENDS. FLAVORS ARE INCLUDED IN OR ADJACENT TO THE AEROSOL GENERATOR CAPSULE. THE BLOTTING AGENT MAY BE PAPER OR TOBACCO, E.G., RECONSTITUTED SHEET OR OTHER MATERIALS, PARTICULATES OR PELLET MIXTURES.  
KEYWORDS : SMOKELESS CIGARETTE; PREMIER; FLAVOR RELEASE; NICOTINE RELEASE

Item 137

TITLE : AN AROMATIC COMPOSITION AND A METHOD FOR THE PRODUCTION OF THE SAME  
PATENT NUMBER : 0281034  
PATENT COUNTRY : EP  
INVENTOR(S) : YAMAMOTO T  
ASSIGNEE : NONE GIVEN  
ABSTRACT : CONTINUOUS FLAVOR RELEASE OF ENCAPSULATED OR CLATHRATED VOLATILES FROM A POROUS MATRIX OF CONJUGATED POLYMER PREPARED FROM METAL ALKOXIDES AND SILANE COUPLING AGENTS. DISCLOSES WIDE GROUP OF METAL OXIDES AND SILANE COMPOUNDS WITH VINYL MONOMERS.  
KEYWORDS : SOL GEL; CARRIER; FLAVOR RELEASE; SLOW RELEASE; PERFUME; HYDROLYSIS; CROSS LINK

Item 138

TITLE : CHEWING GUM CONTAINING FLAVOR COMPOSITION AND FLAVOR COMPOSITION THEREFOR

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PATENT NUMBER : 4259355  
PATENT COUNTRY : US  
INVENTOR(S) : MARMO D; ROCCO F L  
ASSIGNEE : INTERNATIONAL FLAVORS & FRAGRANCES  
ABSTRACT : CONCERNS ORALLY UTILIZABLE COMPOSITIONS CONTAINING A NON-CONFINED FLAVOR OIL, A FLAVOR OIL ENTRAPPED IN SOLID PARTICLES AND A SUSPENDING AGENT SUCH AS HYDROXYPROPYL CELLULOSE. IS ADDED TO CHEWING GUM AND ALSO CHEWING TOBACCO.  
KEYWORDS : CONCENTRATE; DRY; HYDROXYALKYL CELLULOSE; MENTHOL; ADDITIVE; DELAY; POWDER; ENCAPSULATE; ESSENTIAL OIL; SUSPENSION; RELEASE

Item 139

TITLE : NOVEL SWEETENER DELIVERY SYSTEMS  
PATENT NUMBER : 4752485  
PATENT COUNTRY : US  
INVENTOR(S) : SHARMA S C; YANG R K; SHAW J J  
ASSIGNEE : WARNER-LAMBERT  
ABSTRACT : DIRECTED TOWARDS PROVIDING A CONTROLLED RELEASE SWEETENER SUCH AS ASPARTAME AND SACCHARIN FOR DRUGS, MEDICAMENTS AND FLAVORING AGENTS. THE CORE MATERIAL COMPRISES AT LEAST ONE NATURAL OR ARTIFICIAL CORE MATERIAL SELECTED FROM AMINO ACID BASED SWEETENERS, DIPEPTIDE SWEETENERS, GLYCRRHIZIN, SACCHARIN, ACESULPHAME, CYCLAMATES, STEVIOSIDES, TALIN, DIHYDROCHALCONE COMPOUNDS ETC. AND A HYDROPHOBIC MATRIX COMPRISING (A) LECITHIN, (B) AN EDIBLE MATERIAL SELECTED FROM FATTY ACID OF IODINE VALUE 1-10, NATURAL WAXES, SYNTHETIC WAXES AND THEIR MIXTURES, (C) A GLYCERIDE. USEFUL IN CHEWING GUM, TOBACCO, ETC.  
KEYWORDS : COATING; THICKNESS; SLOW RELEASE; FLAVOR RELEASE; OIL; ENCAPSULATE; SPHERICAL; PARTICLE; FREE-FLOWING

Item 140

TITLE : STARCH BASED PARTICULATE ENCAPSULATION PROCESS  
PATENT NUMBER : 4755397  
PATENT COUNTRY : US  
INVENTOR(S) : EDEN J; TRKSAK R; WILLIAMS R  
ASSIGNEE : NATIONAL STARCH AND CHEMICAL CORP  
ABSTRACT : ELIMINATES OR REDUCES LOSS OF VOLATILE MATERIALS. STARCH AND CORE MATERIAL ARE SLURRIED WITH A SATURATED AQUEOUS SOLUTION OF A SALT, THEN DISPERSED AND INTER-MIXED BY STEAM AND PRESSURE. THE PRESSURE IS RAPIDLY REDUCED AND THE MIXTURE QUICKLY COOLED, CAUSING THE STARCH POLYMER CHAINS TO COLLAPSE UPON THEMSELVES, FORMING A MATRIX. THE STARCH IS A HIGHLY RETROGRADED AND WATER RESISTANT COATING. THE SALT MAY BE WASHED OUT.  
KEYWORDS : DRYING; FLAVOR; MAGNESIUM SULFATE; CARRIER; ENCAPSULATE

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Item 141

TITLE : CIGARETTE OR CIGAR WITH FILTER AND AUTOMATIC EXTINGUISHER  
PATENT NUMBER : 2242661  
PATENT COUNTRY : DE  
INVENTOR(S) : THIELE H; HARSDORFF M  
ASSIGNEE : TABAK-ENGINEERING GMBH  
ABSTRACT : AMPULE OF LIQUID EMBEDDED NEXT TO FILTER.  
KEYWORDS : ENCAPSULATE; SELF-EXTINGUISH; SAFETY

Item 142

TITLE : FLAVOR AND SWEETNESS ENHANCEMENT DELIVERY SYSTEMS AND  
METHOD OF PREPARATION  
PATENT NUMBER : 4803082  
PATENT COUNTRY : US  
INVENTOR(S) : CHERUKURI S R; FAUST S M; ORLANDI D A  
ASSIGNEE : WARNER-LAMBERT  
ABSTRACT : COMPRISING A POWDERED FLAVOR COMPOSITION ENCAPSULATED IN  
A MATRIX COMPRISING THAUMATIN, MONELLIN, DIHYDROCHALCONES  
AND MIXTURES AND A HYDROPHOBIC WAX OR FAT. PARTICULARLY  
USEFUL IN CHEWING GUMS, CONFECTIONERIES AND PHARMACEUTICAL  
PREPARATIONS AS WELL AS OTHER FOOD PRODUCTS.  
KEYWORDS : CARRIER; SWEETENER; DELAYED RELEASE; FLAVOR RELEASE

Item 143

TITLE : METHOD OF ENCAPSULATING-ENTRAPPING TOBACCO FLAVORS  
DIRECTLY INTO CIGARETTE FILLER  
INVENTOR(S) : KERITSSIS G D  
ASSIGNEE : PHILIP MORRIS  
ABSTRACT : STABILIZES FLAVORANTS IN CIGARETTES AND PREVENTS LOSSES  
DURING STORAGE OR PREVENTS CHANGES DUE TO OXIDATION OR DUE  
TO OTHER REACTIONS.  
KEYWORDS : STORAGE STABLE; ENCAPSULATE; ENTRAP; FLAVOR  
PM NUMBER/DATE : PMD550

Item 144

TITLE : TAMPER INDICATOR TAPE  
PATENT NUMBER : 3896965  
PATENT COUNTRY : US  
INVENTOR(S) : CORNELL L W  
ASSIGNEE : MINNESOTA MINING AND MANUFACTURING  
ABSTRACT : AN EASY OPENING, HERMETICALLY SEALED CONTAINER WITH A  
PREFORMED APERTURE IS COVERED BY A TAPE CLOSURE HAVING ON  
ITS OUTER SURFACE AN INDICATOR LAYER WHICH CHANGES COLOR  
WHEN FLEXED, THEREBY INDICATING WHETHER THE CLOSURE HAS  
BEEN HANDLED OR TAMPED WITH. FOR USE ON CANS OF JUICE.

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KEYWORDS : ETC., HAVING PRESSURE SENSITIVE TEAR STRIP CLOSURES WHICH ARE COATED WITH ADHESIVE AND ENCAPSULATED DYE.  
: TEAR TAPE; TEAR STRIP; PACKAGE; COLOR CHANGE; INDICATOR; VISIBLE; TAMPER EVIDENT; TAMPERPROOF; OPEN; RUPTURE; PULL-TOP; PRESSURE SENSITIVE; ENCAPSULATE; SEAL; POLYMER FILM; PET

Item 145

TITLE : TAMPER INDICATOR TAPE  
PATENT NUMBER : 3935960  
PATENT COUNTRY : US  
INVENTOR(S) : CORNELL L W  
ASSIGNEE : MINNESOTA MINING AND MANUFACTURING  
ABSTRACT : LAMINATE TEAR TAPE OR PRESSURE SENSITIVE CLOSURE HAVING AN OUTER INDICATOR LAYER WHICH UNDERGOES COLOR CHANGE WHEN FLEXED OR RUPTURED, THUS SERVING AS A VISIBLE INDICATOR OF TAMPERING. FOR USE ON CANS, PACKAGES AND OTHER CONTAINERS.  
KEYWORDS : ENCAPSULATE; DYE; SEAL; TAMPER EVIDENT; TAMPERPROOF; OPEN; POLYMER FILM; PET; TEAR TAPE; PRESSURE SENSITIVE; COLOR CHANGE

Item 146

TITLE : CHECK PAPER THAT IS PROTECTED AGAINST FORGERY AND TAMPERING  
PATENT NUMBER : 4496961  
PATENT COUNTRY : US  
INVENTOR(S) : DEVRIENT L  
ASSIGNEE : GAO GESELLSCHAFT FUR AUTOMATION  
ABSTRACT : RUPTURABLE MICROCAPSULES ARE EMBEDDED IN THE PAPER AND CONTAIN A LEVCO INK AND A COLOR ACCEPTOR.  
KEYWORDS : COLOR CHANGE; COATING; VISIBLE; INDICATOR; TAMPER EVIDENT; SECURITY; TAMPERPROOF; PRINT; MULTICOLOR; ENCAPSULATE

Item 147

TITLE : DEVICE WHICH DELIVERS A FLAVORANT VAPOR BY PUFFING  
INVENTOR(S) : SOUTHWICK E W  
ASSIGNEE : PHILIP MORRIS  
ABSTRACT : DEVICE WHICH CAN DELIVER A FLAVORANT VAPOR BY PUFFING. THE DESIGN PERMITS THE CONSUMER TO CONTROL THE TIME OF DELIVERY OF EACH PUFF. WHEN COMPLETELY USED, THE DEVICE WILL BE NEARLY 1/2 THE ORIGINAL LENGTH. ADVANTAGES: CONSUMER-CONTROLLED DELIVERY OF PUFFS AND NO ROD AROMA BEFORE USE.  
KEYWORDS : SMOKELESS CIGARETTE; ENCAPSULATE; FLAVOR RELEASE; TUBE; SLIDE; MICROCAPSULE  
PM NUMBER/DATE : D504

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Item 148

TITLE : ENCAPSULATION OF FLAVORANTS USING THE SOL-GEL PROCESS  
INVENTOR(S) : SANDERS E B  
ASSIGNEE : PHILIP MORRIS  
ABSTRACT : IN THE SOL GEL PROCESS, HYDROLYSIS OF A METAL ALKOXIDE BY WATER LEADS TO A METAL OXYGEN BOND WHICH CAN DISPLACE AN ALKOXIDE ON A SECOND METAL TO GIVE A BRIDGED OXIDE.  
KEYWORDS : SOL GEL; ENCAPSULATE; FLAVOR  
PM NUMBER/DATE : D498

Item 149

TITLE : ELECTRICALLY HEATED AROMA DISPENSER  
PATENT NUMBER : 3735704  
PATENT COUNTRY : DE  
INVENTOR(S) : KONIG R; BERGEN K  
ASSIGNEE : ZERNISCH  
ABSTRACT : THE DISPENSER COMPRIMES A CHAMBER WITH A GAS RESERVOIR AND A PIEZOELECTRIC IGNITION DEVICE, THE FLAME FROM WHICH IS SITUATED CENTRALLY BELOW A W-SHAPED HEATING CHAMBER. THIS CAN MOVE AXIALLY AND IS ATTACHED TO A NEEDLE VALVE WHICH ENGAGES WITH AN ORIFICE IN A NOZZLE OF A CHAMBER CONTAINING A FLAVOR RELEASE COMPOUND. A SPRING IS USED TO PRESSURIZE THE AROMA MATERIAL. ALTERNATIVELY, THE AROMA MATERIAL MAY BE SUPPLIED TO THE HEATING ZONE AS A RIBBON WHICH IS WOUND BY A CASSETTE-TYPE MECHANISM. THE RIBBON MAY CONSIST OF MICROENCAPSULATED AROMA COMPOUNDS HELD BETWEEN TWO LAYERS OF METAL FOIL, OR A RECONSTITUTED TOBACCO SHEET IMPREGNATED WITH AROMA MATERIAL.  
KEYWORDS : ELECTRICAL; NICOTINE RELEASE; INHALER; PRESSURIZED CARTRIDGE

Item 150

TITLE : MOUTHPIECES FOR CIGARETTES  
PATENT NUMBER : 2210546  
PATENT COUNTRY : GB  
INVENTOR(S) : BOLT A J N; BASSETT D W  
ASSIGNEE : IMPERIAL TOBACCO  
ABSTRACT : CIGARETTES HAVING TUBULAR MOUTHPIECES OF PAPER, STYROFOAM, CARDBOARD, ETC., JOINED TO SHORTER TOBACCO RODS WHICH ARE MORE DENSELY PACKED. THE CIGARETTES ARE OF ACCEPTABLE PRESSURE DROP AND YIELD SIGNIFICANTLY LESS SIDESTREAM SMOKE ON SMOLDERING. UNLIKE THE MOUTHPIECES OF PAPIROSY CIGARETTES, THE MOUTHPIECES ARE ADAPTED IN VARIOUS WAYS TO COLLAPSE LONGITUDINALLY, TELESCOPE OR FRAGMENT. COMPRESSING CAN BE USED TO RELEASE FRAGRANCES WHICH MAY BE ENCAPSULATED IN THE MOUTHPIECE WALL TO MASK ODOR. MAY

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INCLUDE A FILTER. ALSO DISCLOSES A VERSION WITH NORMAL DENSITY AND SMOLDER RATE CONTROLLED BY A DISC.  
KEYWORDS : VENTILATION; RTD; BURN RATE; FLAVOR RELEASE; AROMA RELEASE; BUTT; STUB; SLIDABLE; LENGTH; PACKING DENSITY; MOUTHPIECE

Item 151

TITLE : FIXED VOLATILE FLAVORS AND METHOD FOR MAKING SAME  
PATENT NUMBER : 3787592  
PATENT COUNTRY : US  
INVENTOR(S) : MITCHELL W A; STAHL H D; SEIDEL W C  
ASSIGNEE : GENERAL FOODS CORPORATION  
ABSTRACT : ACETALDEHYDE FLAVORS ENTRAPPED IN SUGAR CRYSTALS TO FORM STORAGE STABLE FLAVOR RELEASE POWDERED MIX.  
KEYWORDS : FOOD; BEVERAGE; ENCAPSULATE; FIX; SUCROSE; FLAVOR RELEASE; STORAGE STABLE

Item 152

TITLE : FIXED VOLATILE FLAVORS AND METHOD  
PATENT NUMBER : 3898347  
PATENT COUNTRY : US  
INVENTOR(S) : MITCHELL W A  
ASSIGNEE : GENERAL FOODS CORPORATION  
ABSTRACT : FLAVORS ENCAPSULATED IN SUGAR CRYSTALLIZED FROM SUPERSATURATED AQUEOUS SOLUTION OF SUCROSE. USEFUL IN POWDERED BEVERAGE OR FOOD CONCENTRATE.  
KEYWORDS : FLAVOR RELEASE; ENCAPSULATE; CRYSTAL; FIX

Item 154

INVENTOR(S) : LANZILLOTTI H V  
ASSIGNEE : PHILIP MORRIS  
ABSTRACT : METHOD TO ENHANCE AROMA PERCEPTION UPON OPENING OF A PACK OF CIGARETTES. APPLICATION OF ENCAPSULATED ODORANTS LOCATED ON THE SURFACE OF THE PACK CLOSURE BAND, IN SUCH A MANNER AS TO CAUSE THE CAPSULES TO BE RUPTURED WHEN THE

KEYWORDS : POLY OVERWRAP IS REMOVED.  
PM NUMBER/DATE : ENCAPSULATE; AROMA RELEASE  
: D325

Item 155

INVENTOR(S) : NICHOLS W A  
ASSIGNEE : PHILIP MORRIS  
ABSTRACT : ENCAPSULATION OF FLAVORANTS OR MULTICOMPONENT REACTIVE CHEMICAL SYSTEMS IN A CIGARETTE FILTER. RELEASE OF THE FLAVORANTS OR INITIATION OF THE CHEMICAL REACTION IS CONTROLLED BY THE SMOKER.  
KEYWORDS : ENCAPSULATE; FLAVOR; FLAVOR RELEASE; RUPTURE  
PM NUMBER/DATE : D302

Item 156

TITLE : TAMPER-EVIDENT PACKAGING  
INVENTOR(S) : SOUTHWICK E W  
ASSIGNEE : PHILIP MORRIS  
KEYWORDS : TAMPER EVIDENT; PACKAGING; VISUAL; DYE; COLOR CHANGE; CHEMICAL REACTION; ENCAPSULATE  
PM NUMBER/DATE : D356

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